QUALITY CHECK ABSTRACT

Ref. No.: Date:

Project Name: - Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06

Client:- Executive Engineer, project division yelahanka zone, BBMP

Contractor / Agency:- Sri. Putta Swamy Gowda

Work Order No: EE(Project)/YNK Zone/WO/143/2020-21

Sl No	Type of Construction	Unit	Quantity	Test
1	Cement Physical Tests	cum	446.90	Test as per [IS:4031 Part 1 to 5]
2	Coarse and Fine Aggregates	Cum	446.90	Test as per [IS: 2386:1963 (RA 2016)] i)Gradation ii) Water Absorption
3	Coarse Aggregate	Cum	446.90	i)Aggregate Impact Test [IS: 2386 1963 Part 4 (RA 2016)]
4	Core Test on Precast Concrete Slab (100 mm Thick)	Sqm	1216.37	Compressive Strength Test as per

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Executive Engineer
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5	wet mix macadam	Cum	5015.09	Compressive Strength (Core Test) Test as per [IS:516-1959 RA1999], SP-24:1983
6	Soil Sub Grade	Cum	5545.14	Density of sub Grade /Soil

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TEST REPORT

Tests on Cement

[IS:4031 – Part 1 to 5]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	SRI.PUTTA SWAMY GOWDA	**Date:**	11/12/2020
Sample Supplied by:	Agency / Contractor		

The test results conducted on the cement sample are as follows:

Sl No	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Fineness of Cement	IS 4031 (Part-1)	3.1%	Obtained Test Results Should Be Less Than 10%	OPC
2	Initial Setting Time	IS 4031 (Part-5)	126Minutes	Obtained Test Results Should not be less than 30 minutes	
3	Final Setting Time	IS 4031 (Part-5)	343Minutes	Obtained Test Results Should not be more than 600 minutes	
4	Soundness	IS 4031 (Part-3) by Le-Chatelier method	3.3 mm	Not more than 10mm	
5	Standard Consistency	IS-4031 (Part-4)	28%	Obtained Test results Should be 20% to 30%	
Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.					

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PROJECT CONSULTANT

Ref.No:MC

Gradation Test on Fine Aggregate

[IS:383-2016]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date**	11/12/2020
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate	**Total weight taken:**	1500 gms

The test results conducted on the fine aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
10	0	0	0	100	100
4.75	75	75	5.00	95.00	90 to 100
2.36	134	209	13.93	86.07	75 to 100
1.18	324	533	35.53	64.47	55 to 90
600 Micron	350	883	58.87	41.13	35 to 59
300 Micron	329	1212	80.80	19.20	8 to 30
150 Micron	267	1479	98.60	1.40	0 to 10
Pan	21	1500	100	0.00	0

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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Ref.No:MC

Specific Gravity of Fine Aggregates

IS:2386(PART3):1963(RA 2016)

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 03**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	13/11/2020
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate		

The test results conducted on the fine aggregate sample are as follows:

Sl no	Description	Sample weight	Test Method As Per IS 2386(Part 3):1963(RA 2016)
1	Weight of Saturated dry sample (C),gm	500	**Standard Requirements (2 to 4)**
2	Weight of Pycnometer +Saturated dry sample + Water (A),gm	1853	
3	Weight of Pycnometer +Water (B),gm	1526	
4	Weight of Oven Dry Sample (D), gm	486	
I	**Specific Gravity ,G**	**2.81**	
II	**Apparent Specific Gravity**	**3.06**	
III	**Water Absorption**	**2.88%**	**Standard Requirements (0.1% to 5%)**

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Ref. No.:MC

Gradation Test on Coarse Aggregate

[IS:383-2016]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 04**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	16/11/2020
Sample Supplied by:	Agency / Contractor		
Material Tested:	40mm Coarse Aggregate	**Total weight taken:**	15000 gms

The test results conducted on the coarse aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
80	0	0	0	100	100
40	339	339	2.26	97.74	95 to 100
20	8560	8899	59.33	40.67	30 to 70
10mm	3422	12321	82.14	17.86	10 to 35
4.75	2158	14479	96.53	3.47	0 to 5
Pan	521	15000	100.00	0.00	-
Total	**15000**				-

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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TEST REPORT

Tests on Aggregate [IS:2386:1963(RA 2016)]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 05**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	16/11/2020
Sample Supplied by:	Agency / Contractor		

The testresults conducted on the aggregate sample are as follows:

No.	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Flakiness index	IS 2386 (Part-1):1963(RA 2016)	19.40	Obtained Test Results Should Be 1% to 30%	
2	Elongation index	IS 2386(Part 1) :1963 (RA 2016)	9.89	Obtained Test Results Should be 1% to 30 %	
3	Specific Gravity	IS 2386 (Part 3): 1963 (RA 2016)	2.45	Obtained Test Results Should be 2 to 4	
4	Water Absorption	IS 2386 (Part-3) :1963 (RA 2016)	2.9%	Obtained Test Results should be 1% to 5%	
5	Aggregates Impact Value	IS 2386 (Part -4) :1963 (RA 2016)	39%	Obtained Test Results should be 1% to 60%	
Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.					

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Core Test on Covering Slab [IS:516-1959 RA2018], SP-24:1983

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.Putta Swamy Gowda	**Date**	18/12/2020
SampleLocation:	At Site		
Material Tested:	Drain Covering Slab Core Test (10 cms Thick)	**Grade of Concrete**	**M-25**

The test results conducted on the Drain Covering Slab Core sample are as follows:

Dia of Core D(mm)	Height of the Core H (mm)	Core Wt (Kg)	Density of Core (kg/m3)	H/D	Correction Factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm2)	Correction Factor for the Dia (Strength of Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm2)	Equivalent cube Compressive Strength (N/mm2)
50.00	100.00	0.52	2647.99	2.00	1.000	39.2	19.96	21.56	21.56	26.95
50.00	100.00	0.50	2546.15	2.00	1.000	37.9	19.30	20.85	20.85	26.06
50.00	100.00	0.54	2749.84	2.00	1.000	40.3	20.52	22.17	22.17	27.71

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Tests onSoil Sample

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.	**Date:**	19/12/2020
Contractor:	Sri.Putta Swamy Gowda		
Sample Supplied by:	Agency / Contractor		
Sample identification :	Sub-Grade Soil.		

The testresults conducted on the Soilsample are as follows:

No.	Seive Analysis (% Passing)			Compaction test (IS Heavy)		CBR (%) (4 Days Soaked)	Remarks
	Test method IS 2720 (Part4):1985 (RA 2015)			Test Method IS 2720-(part8):1988(RA 2016)		**Test Method as per IS 2720-Part 16-1979**	
	Gravel (%) > 4.75mm	Sand (%) 4.75 to 0.075mm	Silt and Clay(%)< 0.075	MDD (g/cc)	OMC(%)	56 blows	
1	11.4	62.6	26.6	1.88	8.3	9.5%	Satisfied Requirement
Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.							

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Field Density test for Soilsample are as follows:

Tests on Sub Grade

TEST REPORT ON FIELD DENSITY OF EMBACKMENT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.	**Date:**	19/12/2020
Contractor:	Sri.Putta Swamy Gowda		
Sample :	At site		
Sample identification :	Sub-Grade Soil.		

Lab OMC(%): 8.3

LabMDD(gm/cc): 1.88

Mean weight of sand in cone(w2)	396
Volume of calibrating cylinder(V)	1176
Weight of Sand+cylinder (before pouring into the calibrating container)(W1)	6522
Mean Weight of sand+cylinder(after Pouring into the calibrating container)(w3)	4458
Weight of sand to fill calibrating container(wa=w1-w2-w3)	1668
Bulk density of sand(Ys=Wa/V)	1.42

Sl.no	Description	1	2	3
1	Chainage (m)	60 lhs	80rhs	70C
2	Weight of wet soil/GSB/WMM from hole w gm	2486	2311	2291
3	Weight of cylinder+sand before pouring(w1)	6510	6284	6394
4	Weight of cylinder+sand after pouring(w2)	4354	4268	4390
5	Weight of sand in conical portion(wc)	395	395	395

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6	Weight of sand /gsb/wmm in hole(Wh=W1-W2-Wc)	1761	1621	1609
7	volume of pit (V=Wh/Density of sand)	1246.52	1147.42	1138.93
8	Bulk density=(W/V)	1.99	2.01	2.01
9	Rapid moisture meter reading= M	9	8	8.4
10	Field moisture content MFC(%) by RMM reading	0.09	0.08	0.084
11	Field dry density FDD(g/cc)	1.83	1.86	1.86
12	Degree of compaction (%)	97.32	99.20	98.18

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Ref. No.: MC

Gradation of Wet Mix Macadam

[MORT&H V Revision]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.Putta Swamy Gowda	**Date:**	**26/12/2020**
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	**Total weight taken:**	**10 kg**

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	25	25	0.25	99.75	95-100
3	22.4	3210	3235	32.35	67.65	60-80
4	11.2	2570	5805	58.05	41.95	40-60
5	4.75	1296	7101	71.01	28.99	25-40
6	2.36	1040	8141	81.41	18.59	15-30
7	0.6	496	8637	86.37	13.63	8-22.
8	0.075	918	9555	95.55	4.45	0-8

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Ref. No.: MC

Gradation of Wet Mix Macadam
[MORT&H V Revision]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.Putta Swamy Gowda	**Date:**	**26/12/2020**
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	**Total weight taken:**	**10 kg**

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	52	52	0.52	99.48	95-100
3	22.4	3670	3722	37.22	62.78	60-80
4	11.2	2095	5817	58.17	41.83	40-60
5	4.75	668	6485	64.85	35.15	25-40
6	2.36	1665	8150	81.5	18.5	15-30
7	0.6	820	8970	89.7	10.3	8-22.
8	0.075	725	9695	96.95	3.05	0-8

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Ref. No.: MC

Gradation of Wet Mix Macadam
[MORT&H V Revision]

TEST REPORT

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Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 03**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.Putta Swamy Gowda	**Date:**	**26/12/2020**
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	**Total weight taken:**	**10 kg**

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	97	97	0.97	99.03	95-100
3	22.4	3170	3267	32.67	67.33	60-80
4	11.2	1832	5099	50.99	49.01	40-60
5	4.75	1625	6724	67.24	32.76	25-40
6	2.36	1235	7959	79.59	20.41	15-30
7	0.6	720	8679	86.79	13.21	8-22.
8	0.075	685	9364	93.64	6.36	0-8

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Ref. No.: MC

Tests on Aggregate

[IS:2386:1963(RA 2016)]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 04**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	**Date:**	**26/12/2020**
Sample Supplied by:	Agency / Contractor		
Material:	Wet Mix Macadam (WMM)		

Thetestresults conducted on the aggregate sample for WMM are as follows:

No.	Description	Test Result	Standard Requirements as per Morth V Revision For WMM
1	Flakiness index	20.65	Max Value for WMM for Combined Index Is 30%
2	Elongation index	8.24	

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Ref. No.:MC

Aggregates Impact Value

[IS:2386:1963(RA 2016)]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 05**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.Putta Swamy Gowda	**Date:**	**26/12/2020**
Sample Supplied by:	Agency/Contractor		
Material:	Wet Mix Macadam (WMM)		

The testresults conducted on the aggregate sample of WMM are as follows:

sl no	Details	Trail No		Average	Standard Requirements as per Morth V Revision For WMM
		1	2		
1	Total weight of aggregate sample filling the cylindrical measure=W1 g	390	388	21.34	Max Value for WMM for Combined Index Is 30%
2	Weight of aggregate passing 2.36 mm sieve after the test = W2 g	82	84		
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	308	304		
4	Aggregate Impact Value= percent fines 100*(W2/W1) %	21.03	21.65		

Note:-

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- The results indicated above are based on the tests carried out on the sample received in the laboratory by the agency/ contractor.
- The results relate only to the items tested.
- Any query regarding the report must be reported immediately.

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, JnanaBharathi, Bangalore – 560 056. Tel: 080-23240109,

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

me & Address the Client	Executive Engineer, Project division Yelahanka zone, BBMP
me of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
ame of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Raft
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-5	150.07 X 150.06 X 150.0	22520	12/12/2020	25/12/2020	14	8.22	619	**27.49**	**27.49**
2		150.06 X 150.04 X 150.0	22515				8.25	623	**27.67**	
3		150.08 X 150.06 X 150.0	22521				8.23	615	**27.31**	

Note:

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Wall
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-1	150.08 X 150.03 X 150.0	22517	18/12/2020	14/1/2021	28	8.21	630	**27.98**	**28.20**
2		150.09 X 150.07 X 150.0	22524				8.20	635	**28.19**	
3		150.06 X 150.04 X 150.0	22515				8.19	640	**28.43**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
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Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Raft
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2	150.14 X 150.11 X 150.0	22538	18/12/2020	14/01/2021	28	8.21	590	**26.18**	**26.40**
2		150.12 X 150.13 X 150.0	22538				8.22	595	**26.40**	
3		150.14 X 150.16 X 150.0	22545				8.20	600	**26.61**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Wall
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-4	150.08 X 150 X 150.0	22523	16/12/2020	29/12/2020	14	8.22	625	**27.75**	**27.50**
2		150.07 X 150 X 150.0	22524				8.20	620	**27.53**	
3		150.06 X 150 X 150.0	22515				8.19	613	**27.23**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Raft
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.14 X 150.13 X 150.0	22541	15/12/2020	11/01/2021	28	8.20	615	**27.28**	**27.07**
2		150.12 X 150.11 X 150.0	22535				8.21	610	**27.07**	
3		150.13 X 150.12 X 150.0	22538				8.20	605	**26.84**	

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Grade of Concrete	M-20
No. of cubes tested	3
Location	Wall
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2	150.02 X 150.03 X 150.0	22508	15/12/2020	11/01/2021	28	8.19	620	**27.55**	**27.76**
2		150.04 X 150.06 X 150.0	22515				8.20	625	**27.76**	
3		150.03 X 150.04 X 150.0	22511				8.21	630	**27.99**	

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